Cell	Formula	Comments
A4	=B1*A1	VAT
B4	=IF(A4 <= 100;A4*C1;A4*C1*1.5)	Shipping cost
A7	= A1+A4+B4	Total cost

(Prior art)

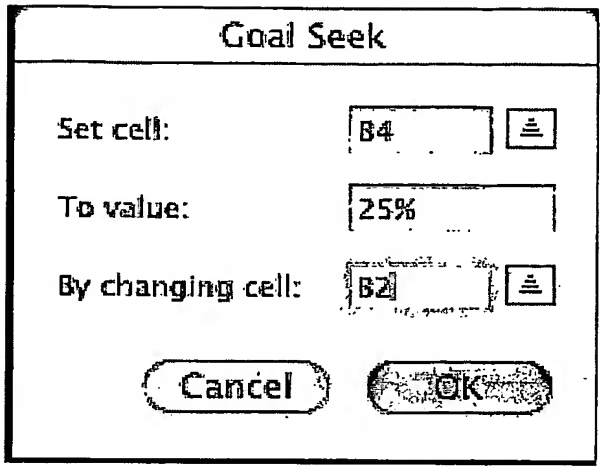
Fig. 1

Cell	Formula	Comments
B2	8500	sales
B3	6800	costs
B4	=B2-B3	gross profit
B5	=B4/B2	gross profit percentage

(Prior art)

Fig. 2

BEST AVAILABLE COPY



(Prior art)

Fig. 3

C
=A1*B$1
=A2*B$1
=A3*B$1
=A4*B$1
=A5*B$1
=A6*B$1
=A7*B$1
=A8*B$1
=A9*B$1
=A10*B$1
=A11*B$1
=A12*B$1

(Prior art)

Fig. 8

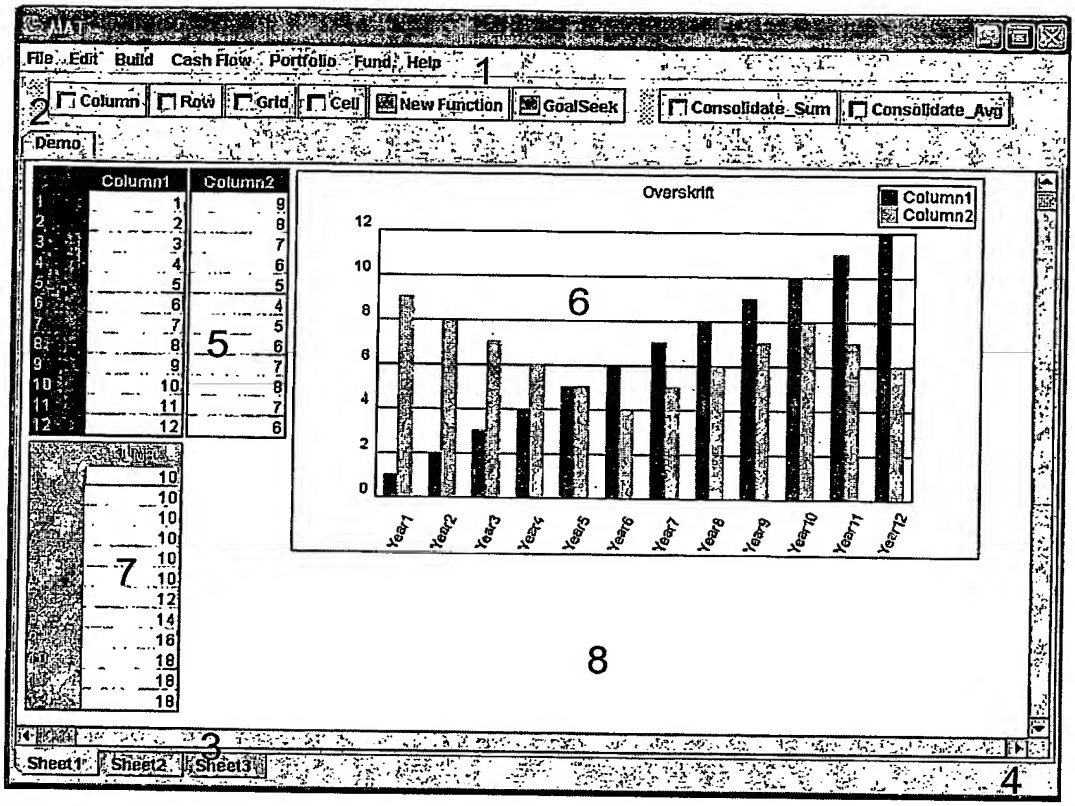

File Edit Build Cash Flow Portfolio Fund Help
1
Column
Row
Grid
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
2
Demo
Column1
Column2
5
Overskrift
Column1
Column2
6
Year1
Year2
Year3
Year4
Year5
Year6
Year7
Year8
Year9
Year10
Year11
Year12
7
8
Sheet1
Sheet2
Sheet3
3
4

Fig. 4

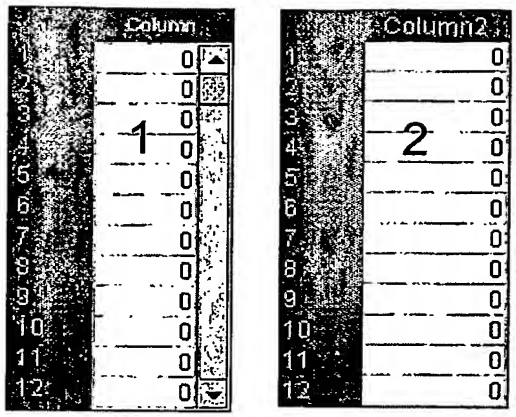


Fig. 5a

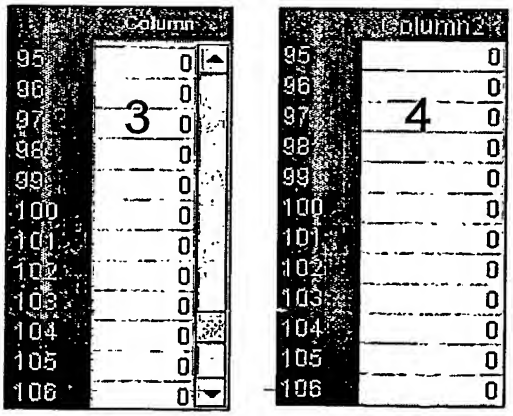
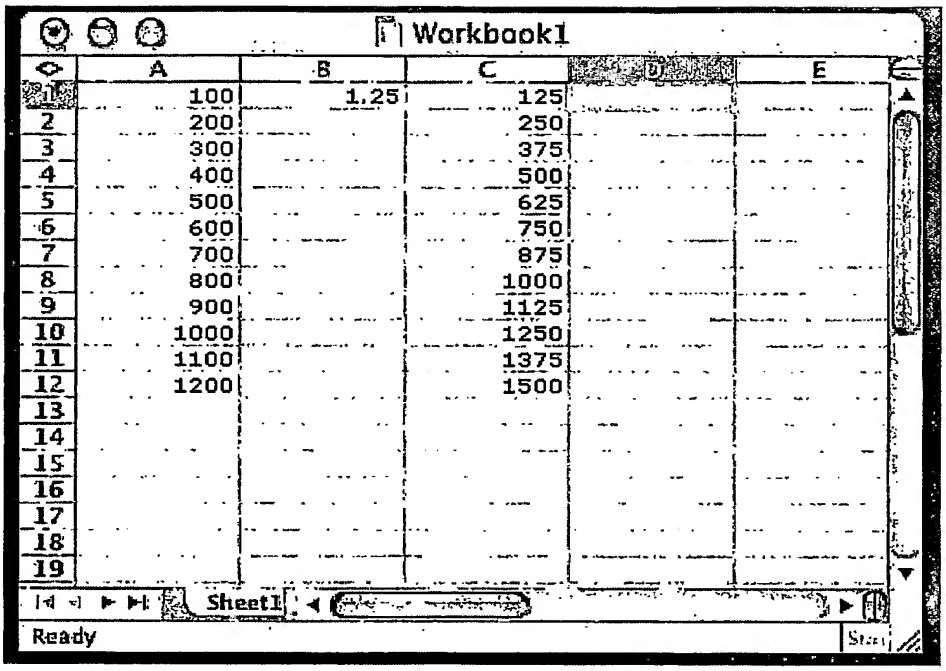
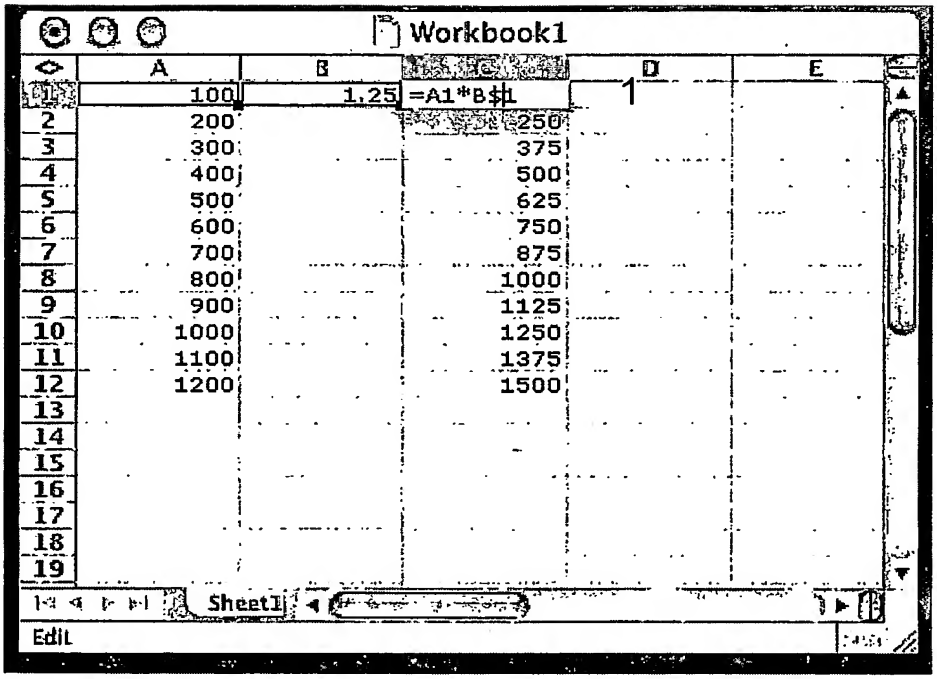


Fig. 5b



(Prior art)

Fig. 6



(Prior art)

Fig. 7

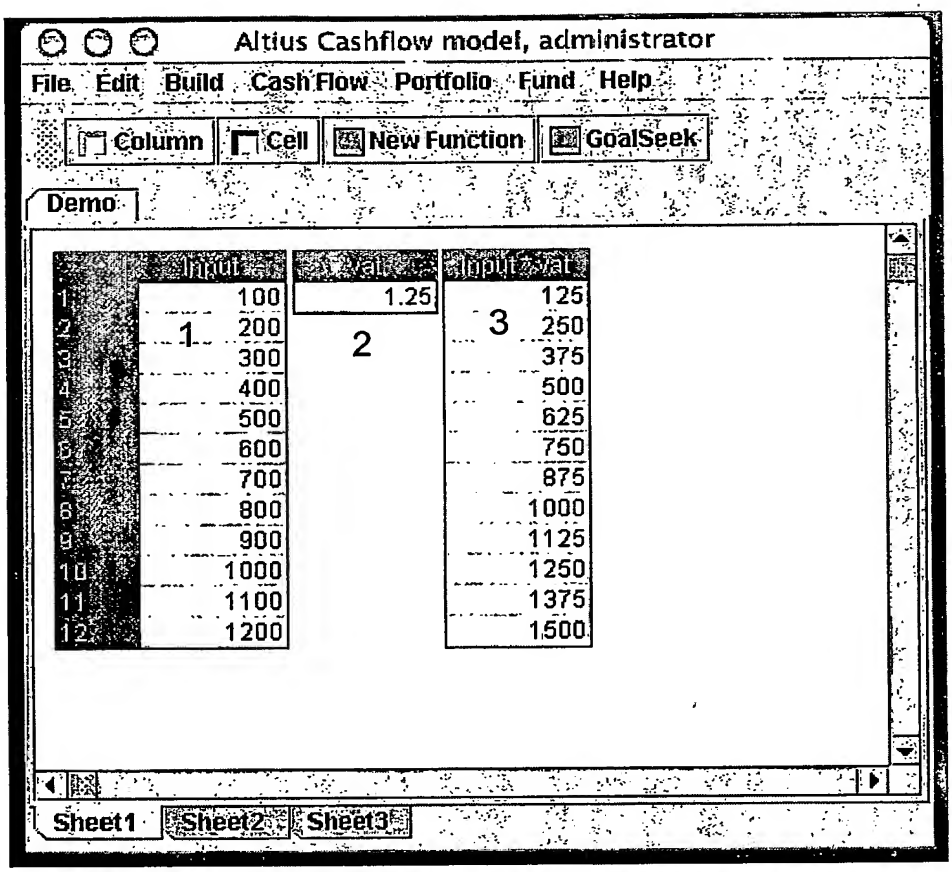

Altius Cashflow model, administrator
File Edit Build Cash Flow Portfolio Fund Help
Column Cell New Function GoalSeek
Demo
Input
Val
Input
Val
1
2
3
100
200
300
400
500
600
700
800
900
1000
1100
1200
1.25
125
250
375
500
625
750
875
1000
1125
1250
1375
1500
Sheet1
Sheet2
Sheet3

Fig. 9

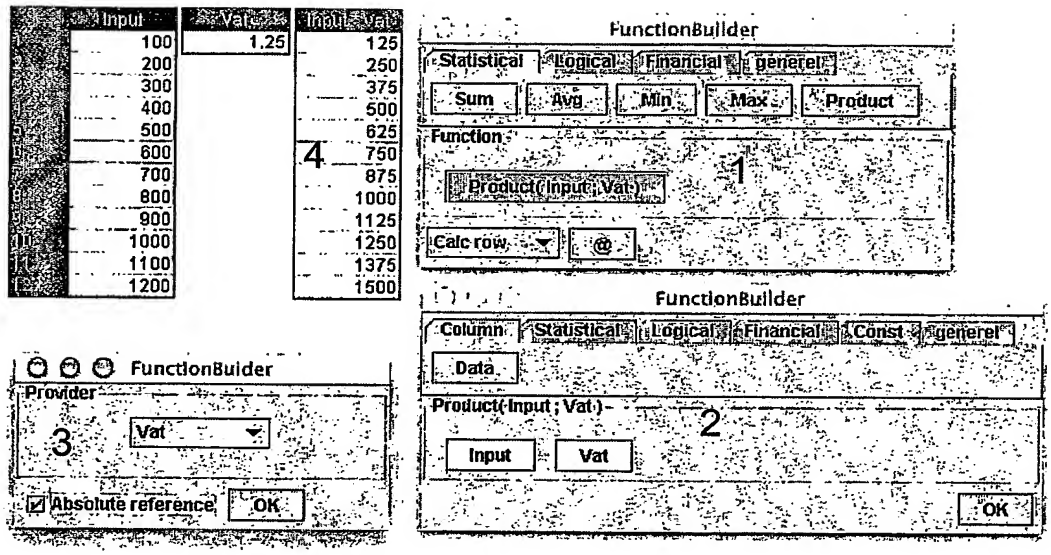

Input
Vat
Input Vat
100
200
300
400
500
600
700
800
900
1000
1100
1200
1.25
125
250
375
500
625
750
875
1000
1125
1250
1375
1500
4
FunctionBuilder
Statistical
Logical
Financial
generel
Sum
Avg
Min
Max
Product
Function
Product(Input ;Vat)
1
Calc row
@
FunctionBuilder
Column
Statistical
Logical
Financial
Const
generel
Data
Product(Input ;Vat)
2
Input
Vat
OK
FunctionBuilder
Provider
3
Vat
Absolute reference
OK

Fig. 10

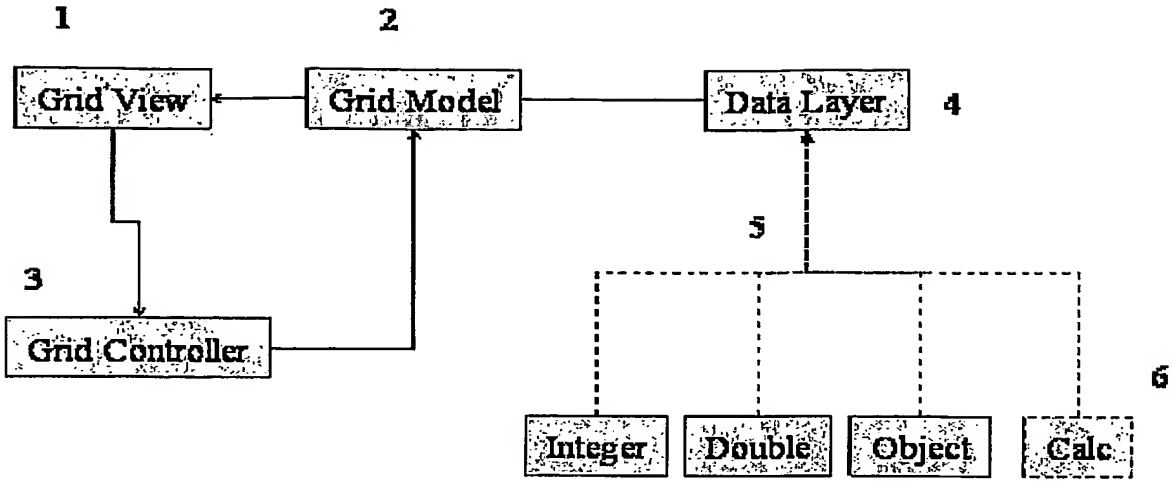

1
2
Grid View
Grid Model
Data Layer
4
5
3
Grid Controller
6
Integer
Double
Object
Calc

Fig. 11

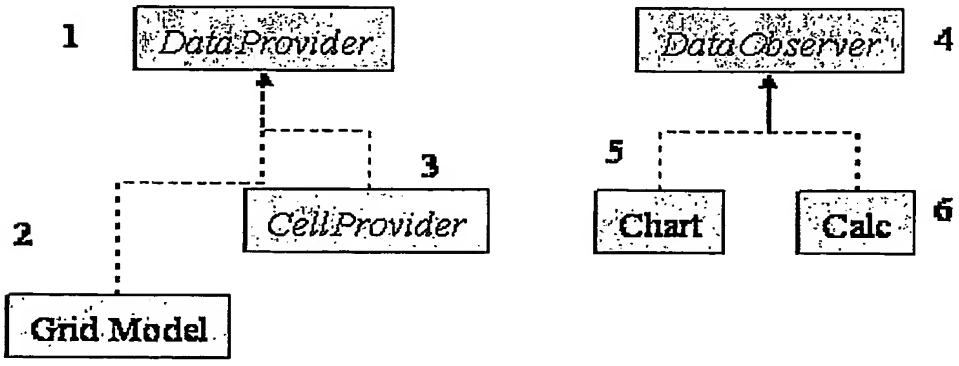

1
Data Provider
Data Observer
4
5
3
Cell Provider
2
Chart
Calc
6
Grid Model

Fig. 12

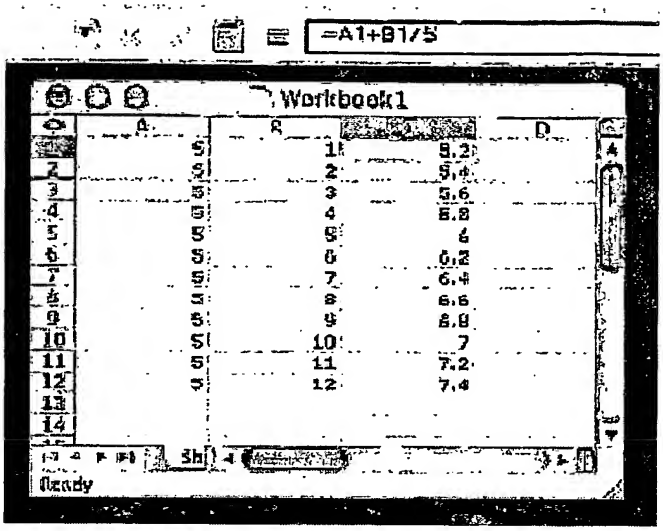


Fig. 13

	C
1	=A1+B1/5
2	=A2+B2/5
3	=A3+B3/5
4	=A4+B4/5
5	=A5+B5/5
6	=A6+B6/5
7	=A7+B7/5
8	=A8+B8/5
9	=A9+B9/5
10	=A10+B10/5
11	=A11+B11/5
12	=A12+B12/5

Fig. 14

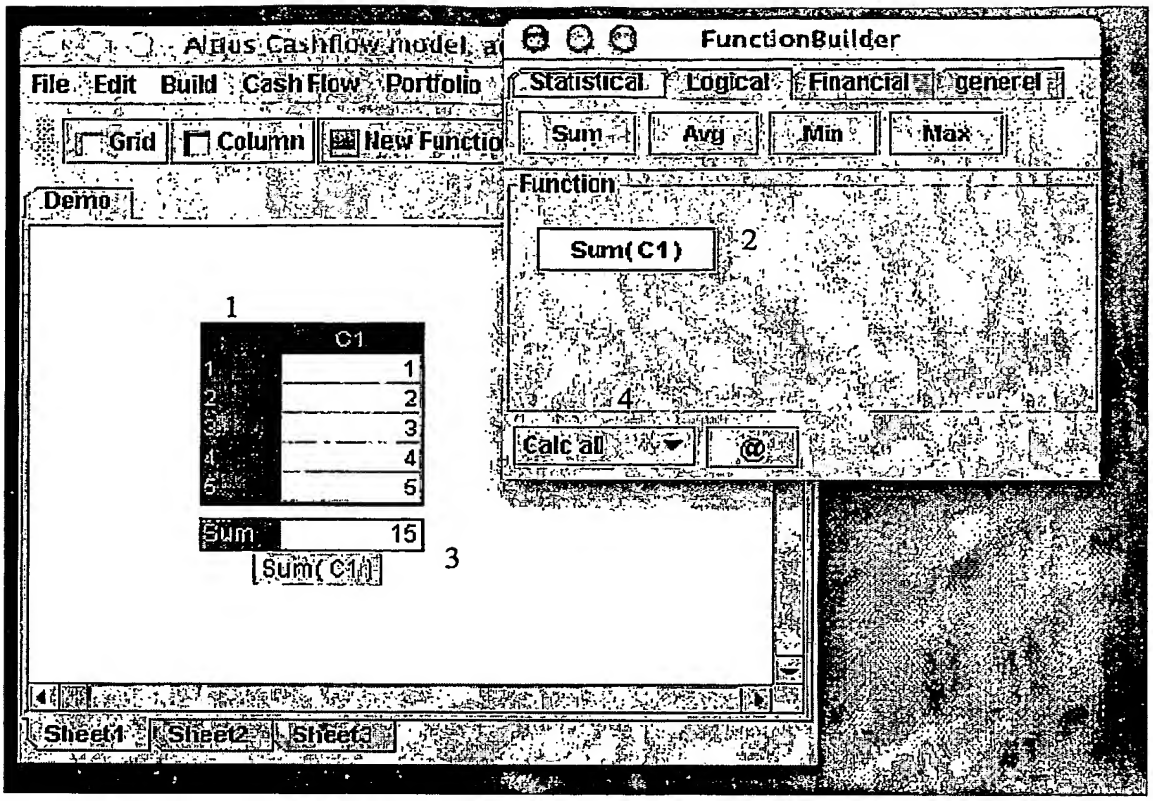

Altus Cashflow model
File Edit Build Cash Flow Portfolio
Grid Column New Functio
Demo
FunctionBuilder
Statistical Logical Financial generel
Sum Avg Min Max
Function
Sum(C1)
2
1
C1
1
2
3
4
5
Sum 15
Sum(C1)
3
4
Calc all
@
Sheet1 Sheet2 Sheet3

Fig. 15

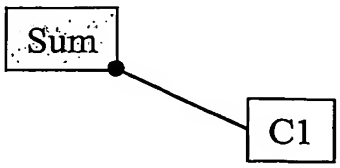

Sum
C1

Fig. 16

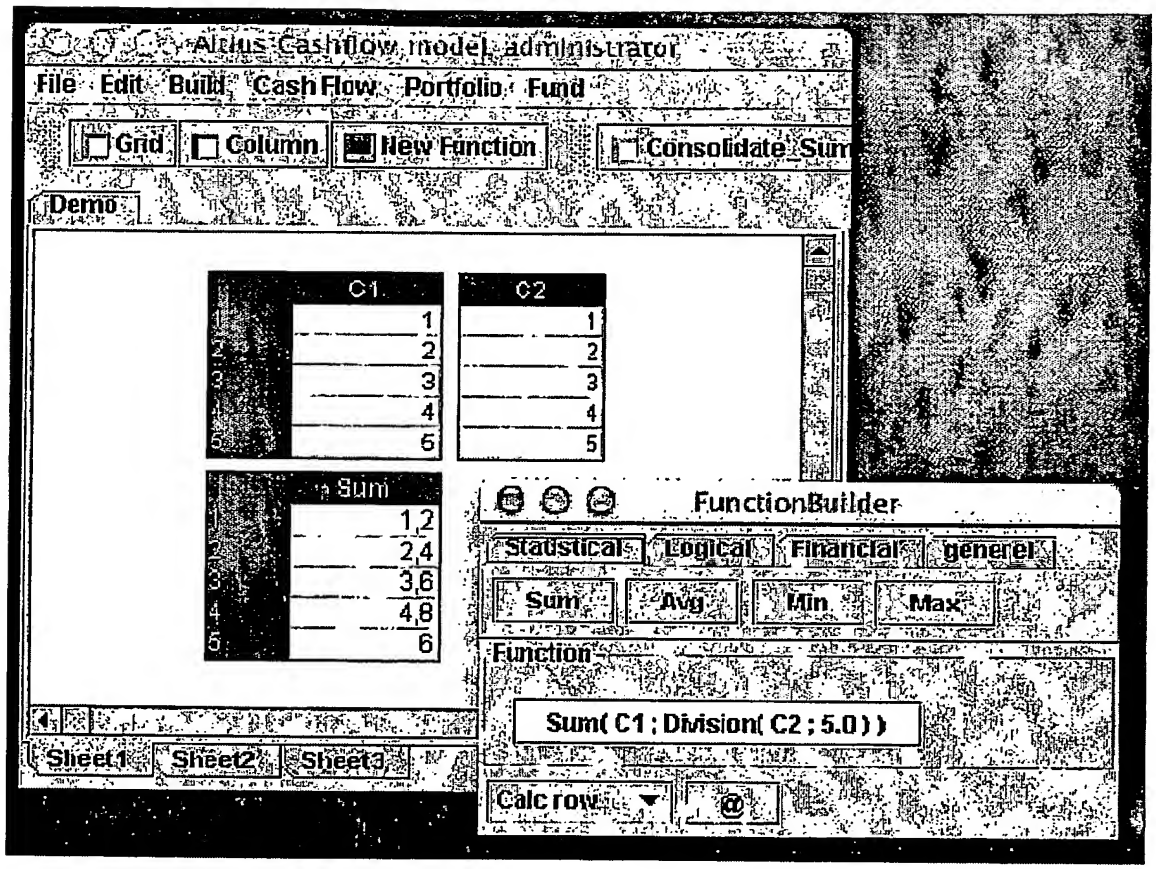

Altius Cashflow model administrator
File Edit Build Cash Flow Portfolio Fund
Grid
Column
New Function
Consolidate Sum
Demo
C1
C2
Sum
FunctionBuilder
Statistical
Logical
Financial
generel
Sum
Avg
Min
Max
Function
Sum(C1 ; Division(C2 ; 5.0))
Sheet1
Sheet2
Sheet3
Calc row

Fig. 17

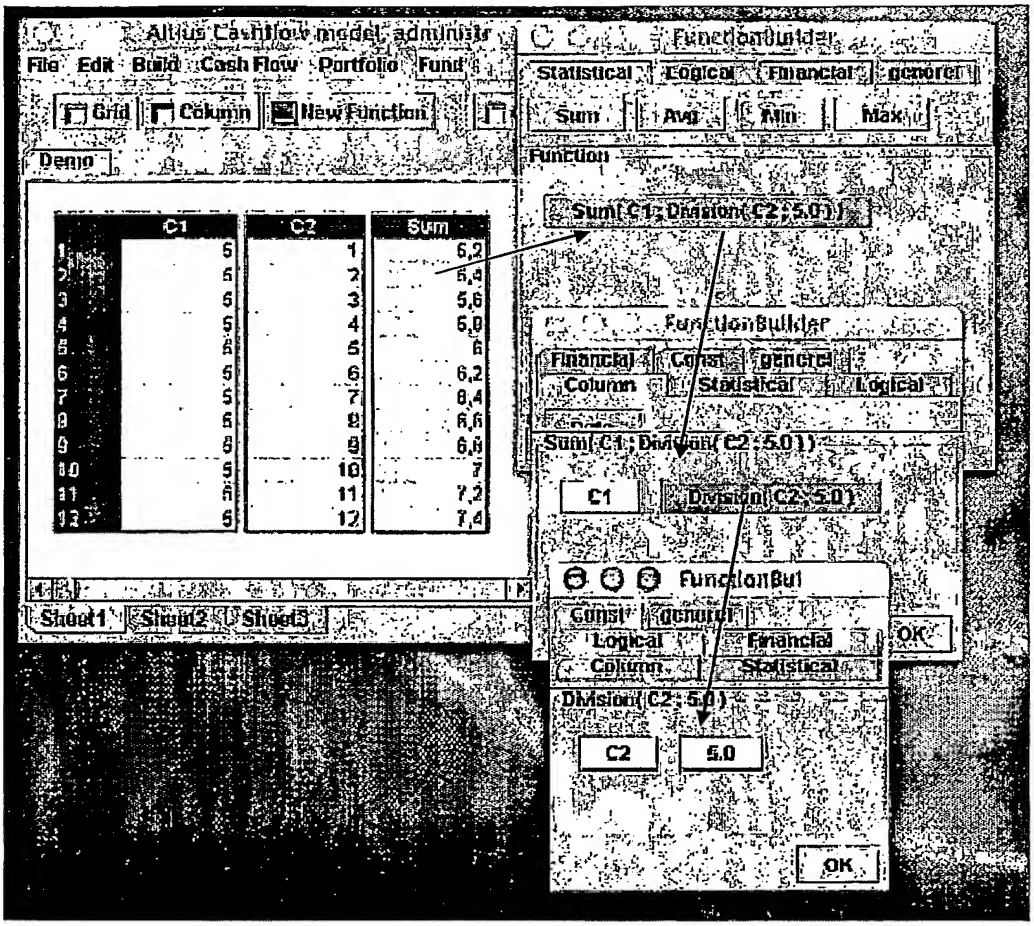

File Edit Build Cash Flow Portfolio Fund
Grid
Column
New Function
Demo
C1
C2
Sum
Sheet1
Sheet2
Sheet3
Statistical
Logical
Financial
general
Sum
Avg
Min
Max
Function
Sum(C1;Division(C2;5.0))
FunctionBuilder
Financial
Const
general
Column
Statistical
Logical
C1
Division(C2;5.0)
FunctionBuil
Const
general
Logical
Financial
Column
Statistical
OK
Division(C2;5.0)
C2
5.0
OK

Fig. 18a

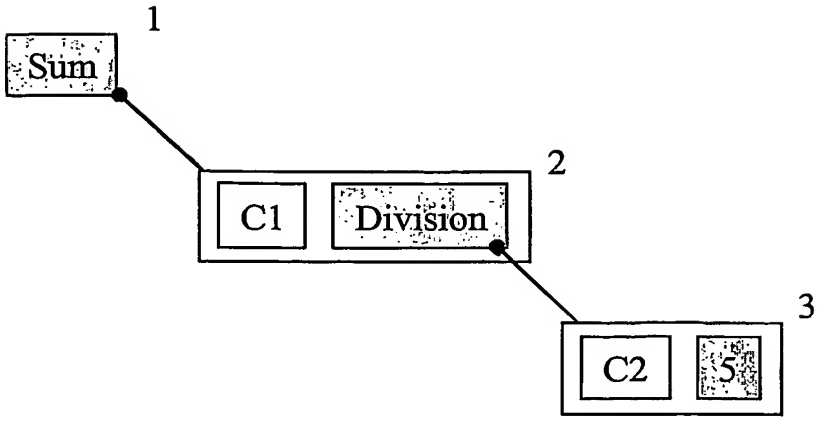


Fig. 18b

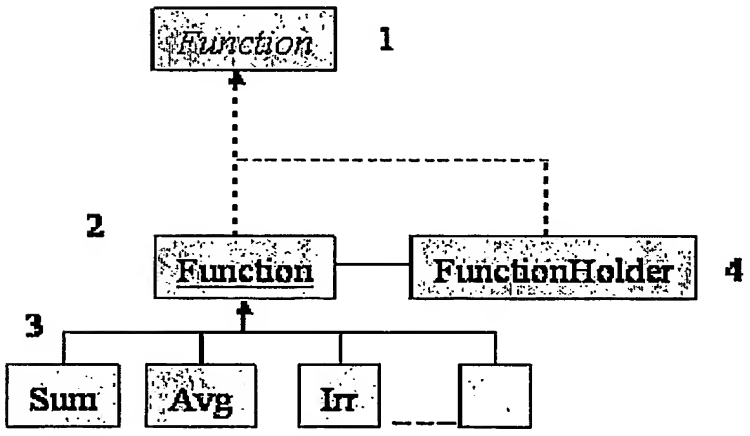


Fig. 19

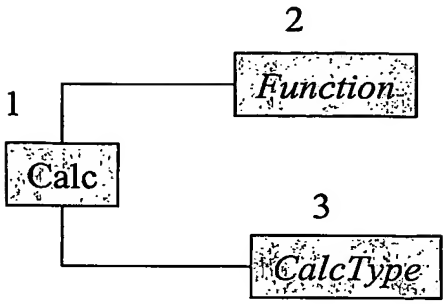

2
Function
1
Calc
3
CalcType

Fig. 20

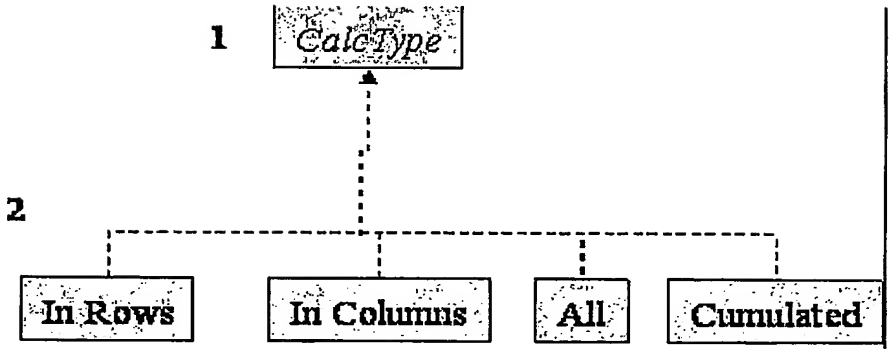

1
CalcType
2
In Rows
In Columns
All
Cumulated

Fig. 21

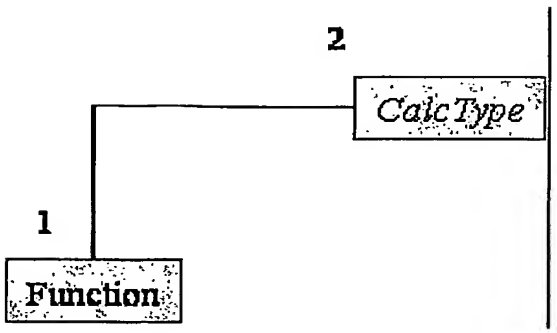


Fig. 22

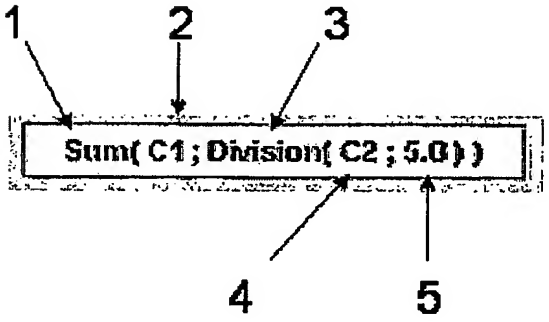


Fig. 25

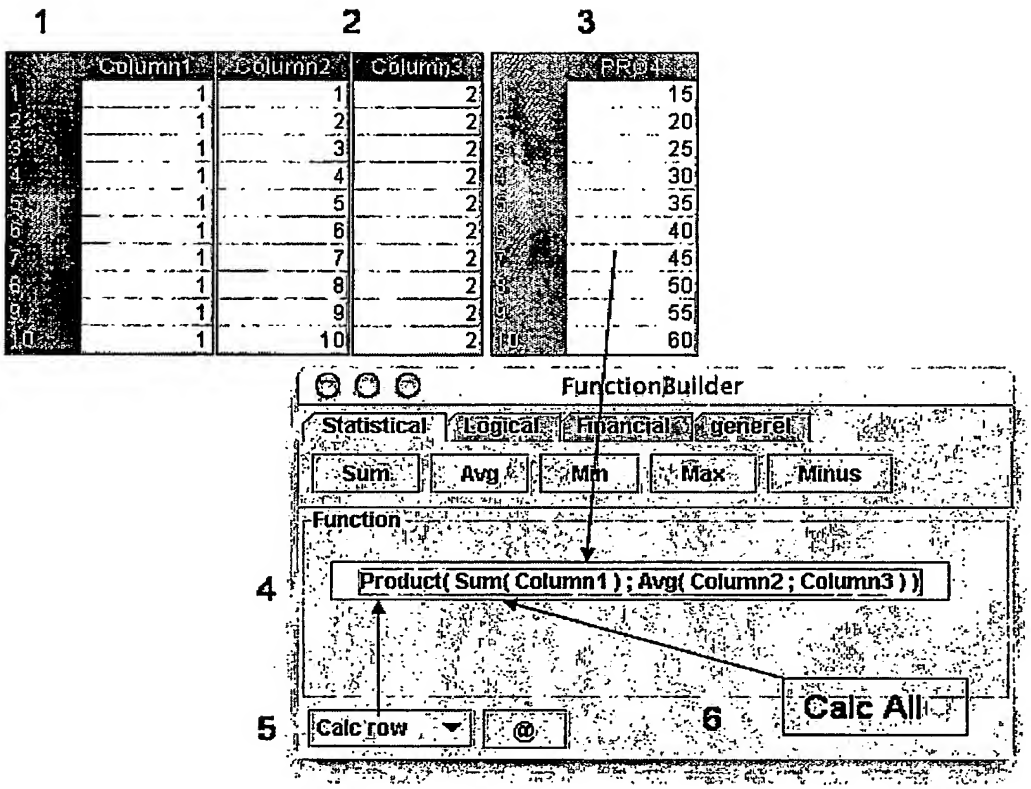

1
2
3
Column1
Column2
Column3
PRD1
1 1 1 2 15
2 1 2 2 20
3 1 3 2 25
4 1 4 2 30
5 1 5 2 35
6 1 6 2 40
7 1 7 2 45
8 1 8 2 50
9 1 9 2 55
10 1 10 2 60
FunctionBuilder
Statistical
Logical
Financial
generel
Sum
Avg
Min
Max
Minus
Function
4
Product(Sum(Column1) ; Avg(Column2 ; Column3))
5
Calc row
@
6
Calc All

Fig. 23

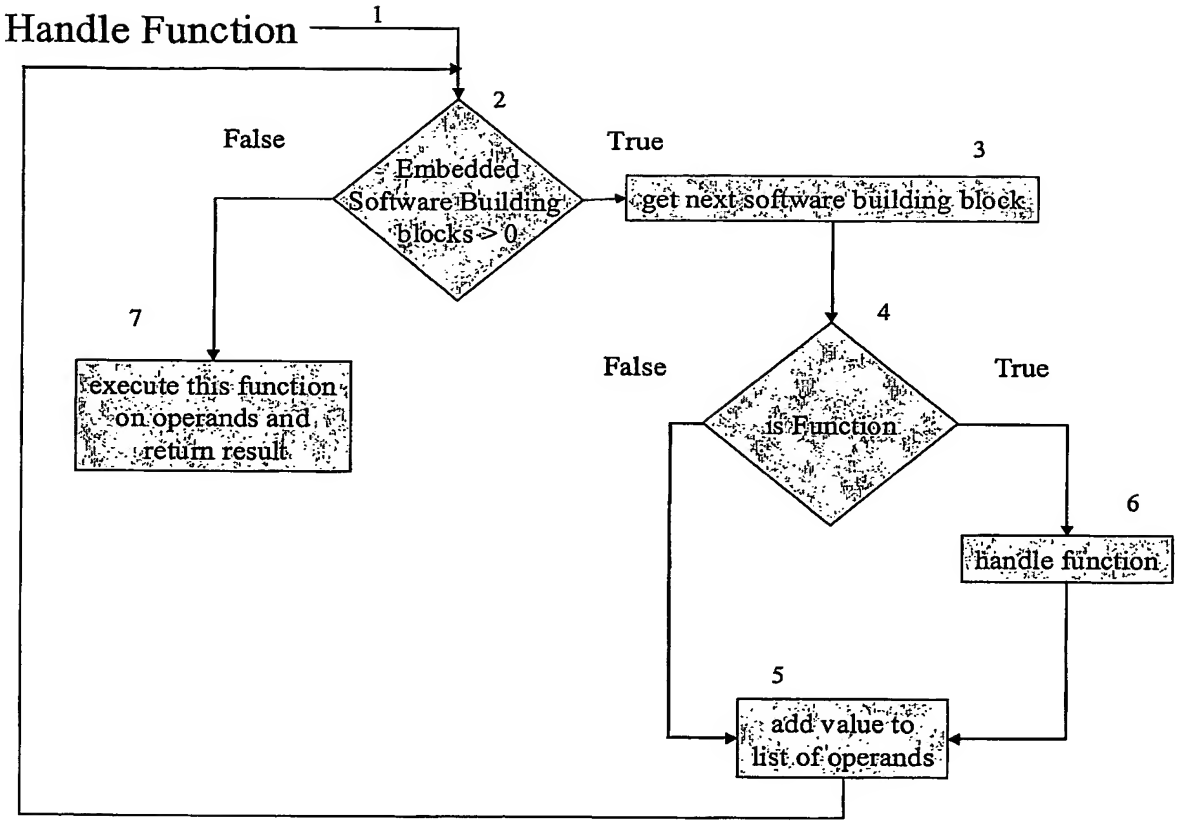

Handle Function
1
2
False
Embedded Software Building blocks > 0
True
3
get next software building block
7
execute this function on operands and return result
4
False
is Function
True
6
handle function
5
add value to list of operands

Fig. 24

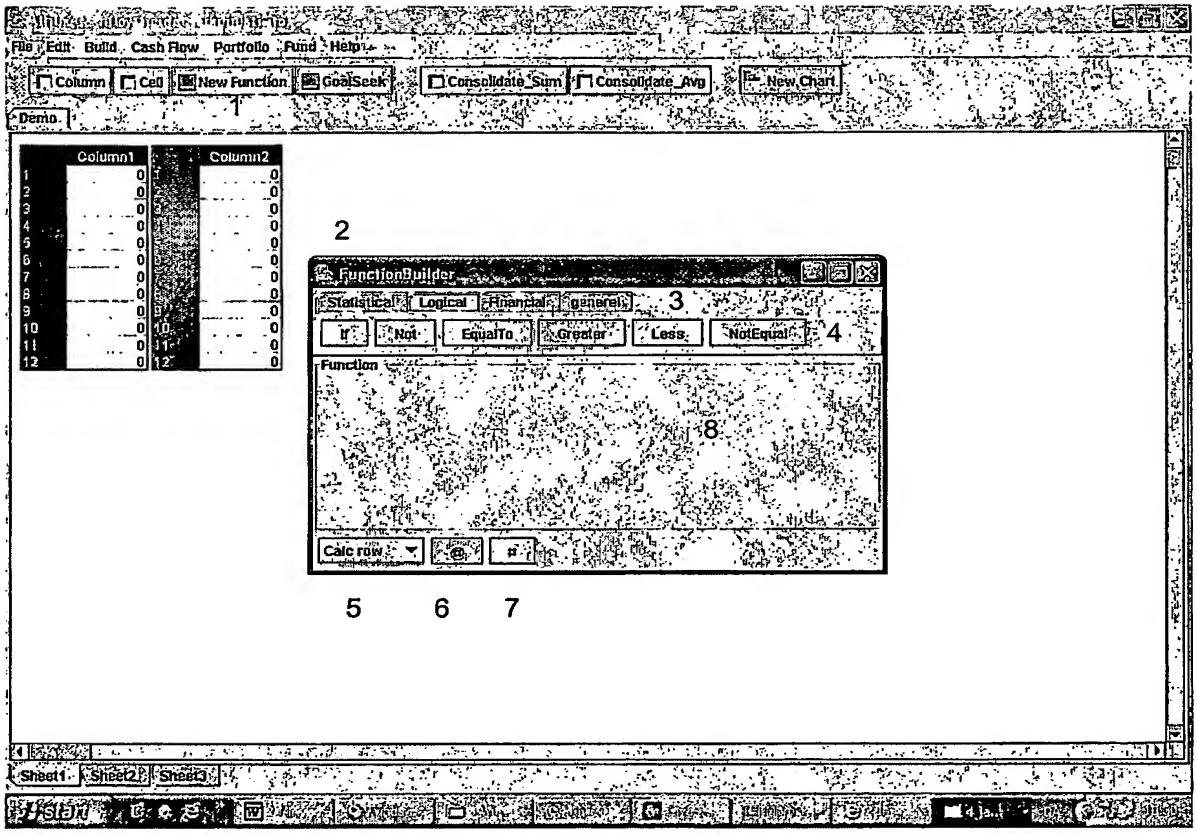

File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
2
FunctionBuilder
Statistical
Logical
Financial
general
3
If
Not
EqualTo
Greater
Less
NotEqual
4
Function
8
Calc row
5
6
7
Sheet1
Sheet2
Sheet3

Fig. 26

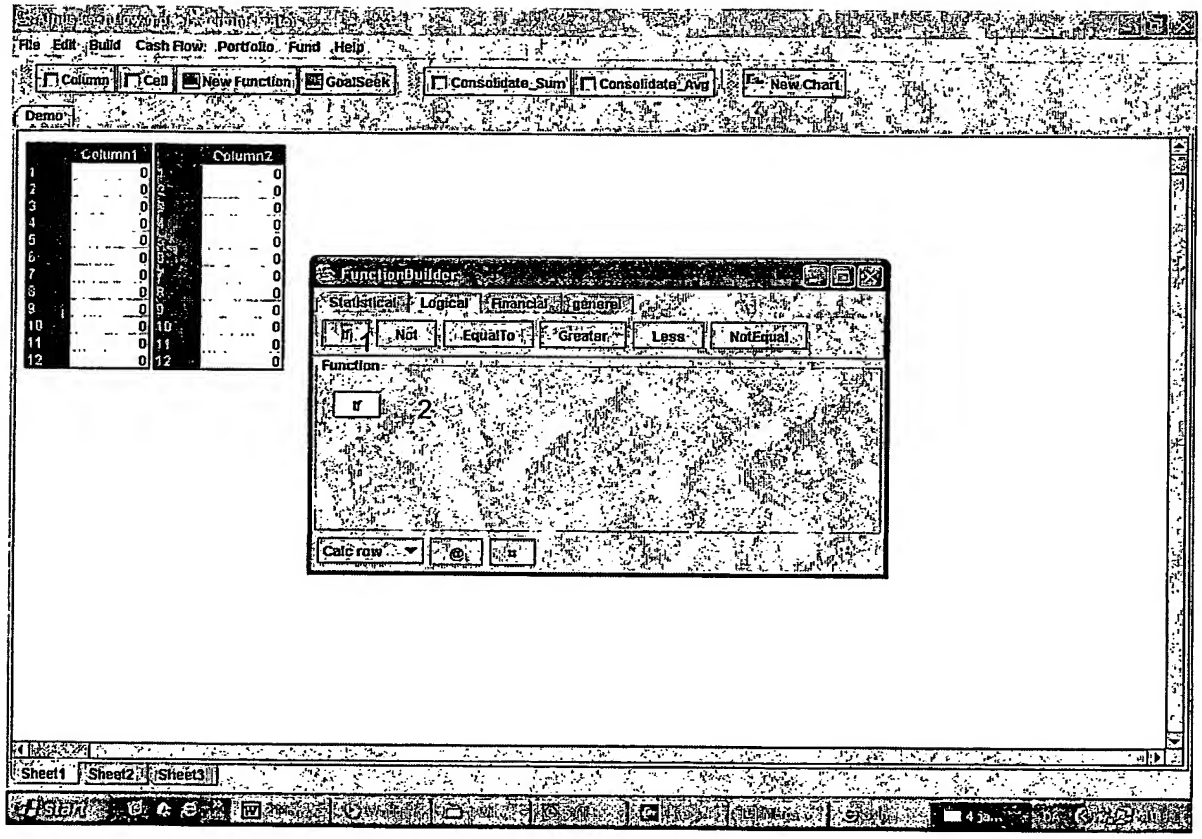

File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
FunctionBuilder
Statistical
Logical
Financial
Not
EqualTo
Greater
Less
NotEqual
Function
Calc now
Sheet1
Sheet2
Sheet3
start

Fig. 27

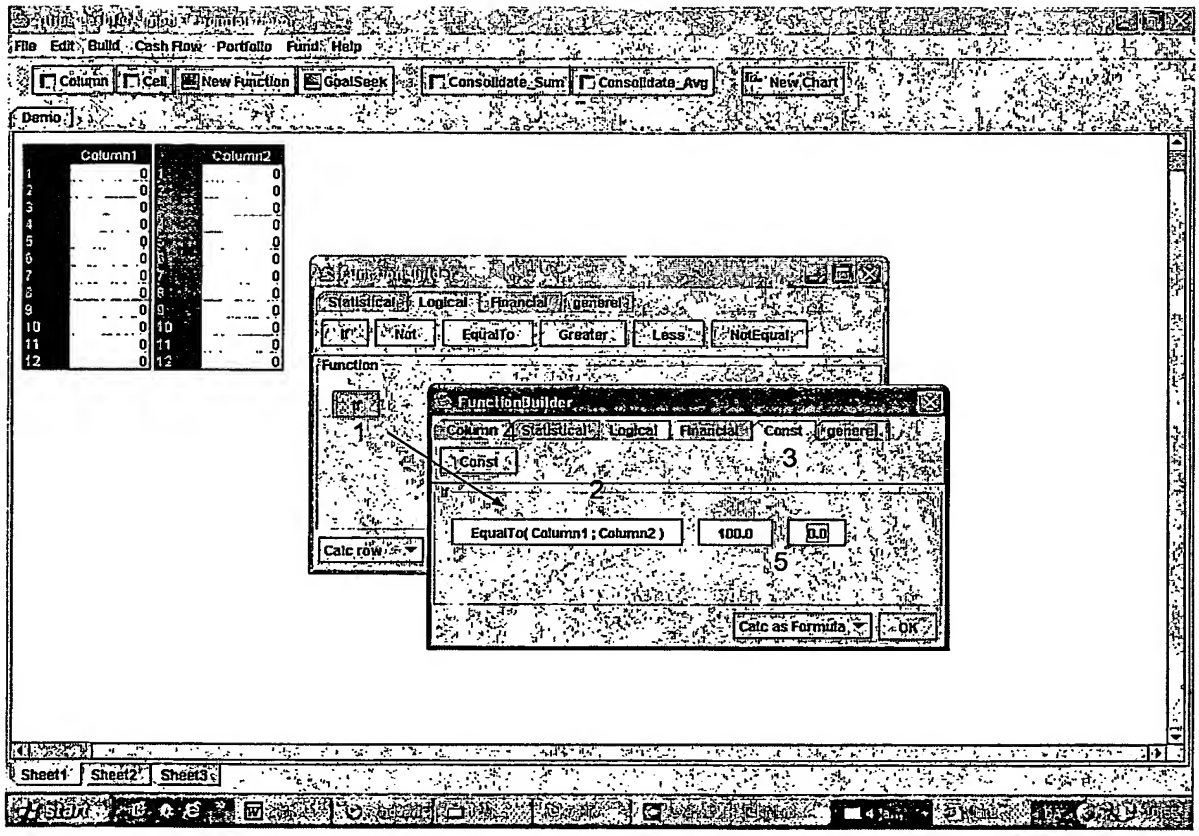

File Edit Build Cash Flow Portfolio Funds Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
Statistical
Logical
Financial
general
If
Not
EqualTo
Greater
Less
NotEqual
Function
FunctionBuilder
Column
Statistical
Logical
Financial
Const
general
Const
1
2
3
EqualTo(Column1 ; Column2)
100.0
0.0
5
Calc row
Calc as Formula
OK
Sheet1
Sheet2
Sheet3
start

Fig. 28

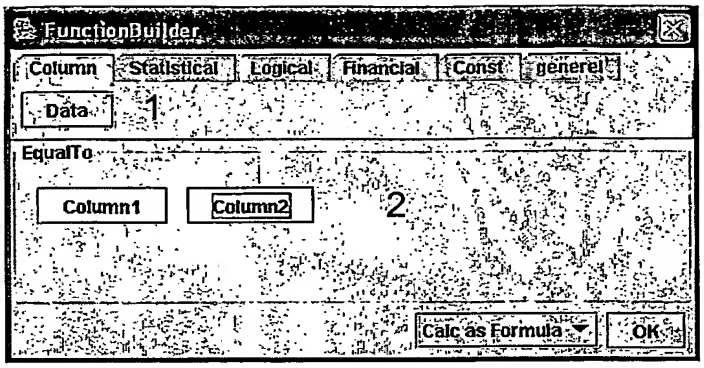

FunctionBuilder
Column
Statistical
Logical
Financial
Const
generel
Data
1
EqualTo
Column1
Column2
2
Calc as Formula
OK

Fig. 29

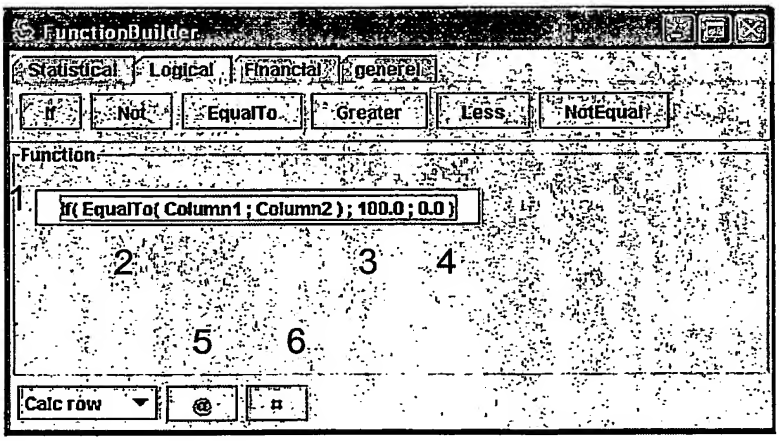

FunctionBuilder
Statistical
Logical
Financial
generel
If
Not
EqualTo
Greater
Less
NotEqual
Function
1
If(EqualTo(Column1 ; Column2) ; 100.0 ; 0.0)
2
3
4
5
6
Calc row
@
#

Fig. 30

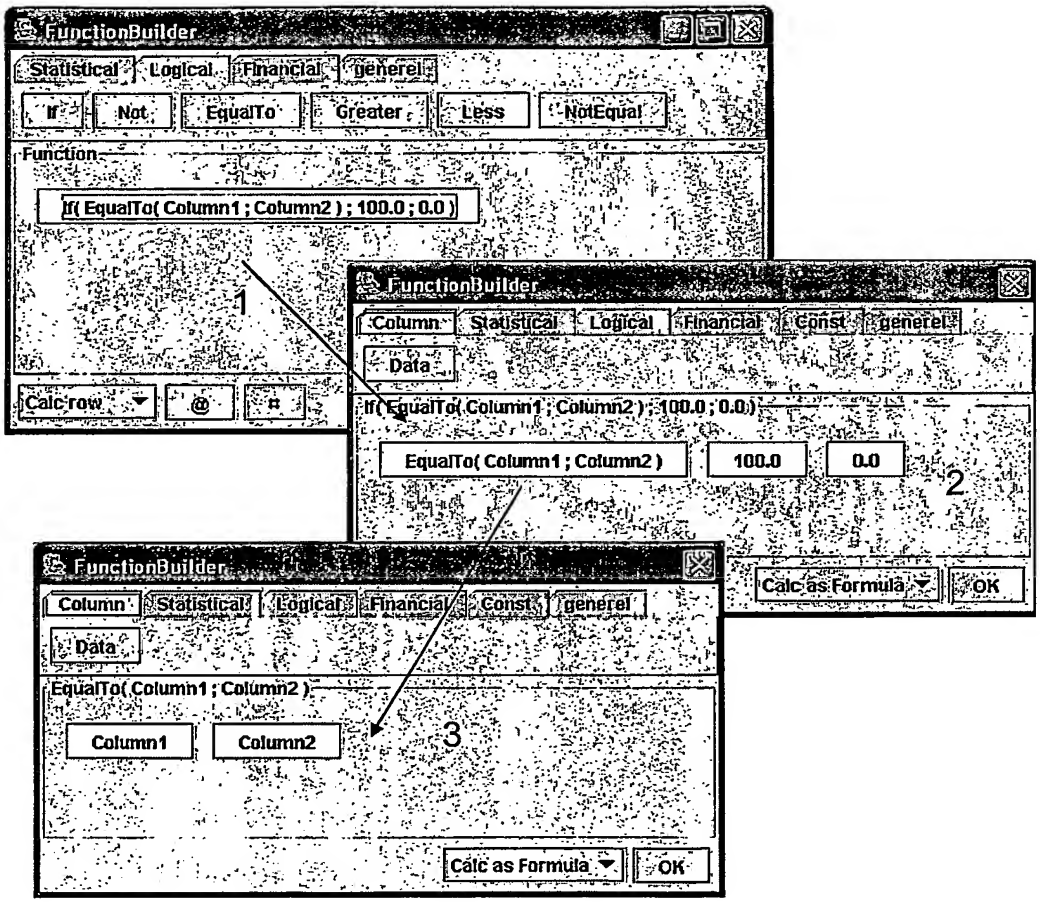

FunctionBuilder
Statistical
Logical
Financial
generel
If
Not
EqualTo
Greater
Less
NotEqual
Function
If(EqualTo(Column1 ; Column2) ; 100.0 ; 0.0)
1
Calc row
@
#
FunctionBuilder
Column
Statistical
Logical
Financial
Const
generel
Data
If(EqualTo(Column1 ; Column2) ; 100.0 ; 0.0)
EqualTo(Column1 ; Column2)
100.0
0.0
2
Calc as Formula
OK
FunctionBuilder
Column
Statistical
Logical
Financial
Const
generel
Data
EqualTo(Column1 ; Column2)
Column1
Column2
3
Calc as Formula
OK

Fig. 31

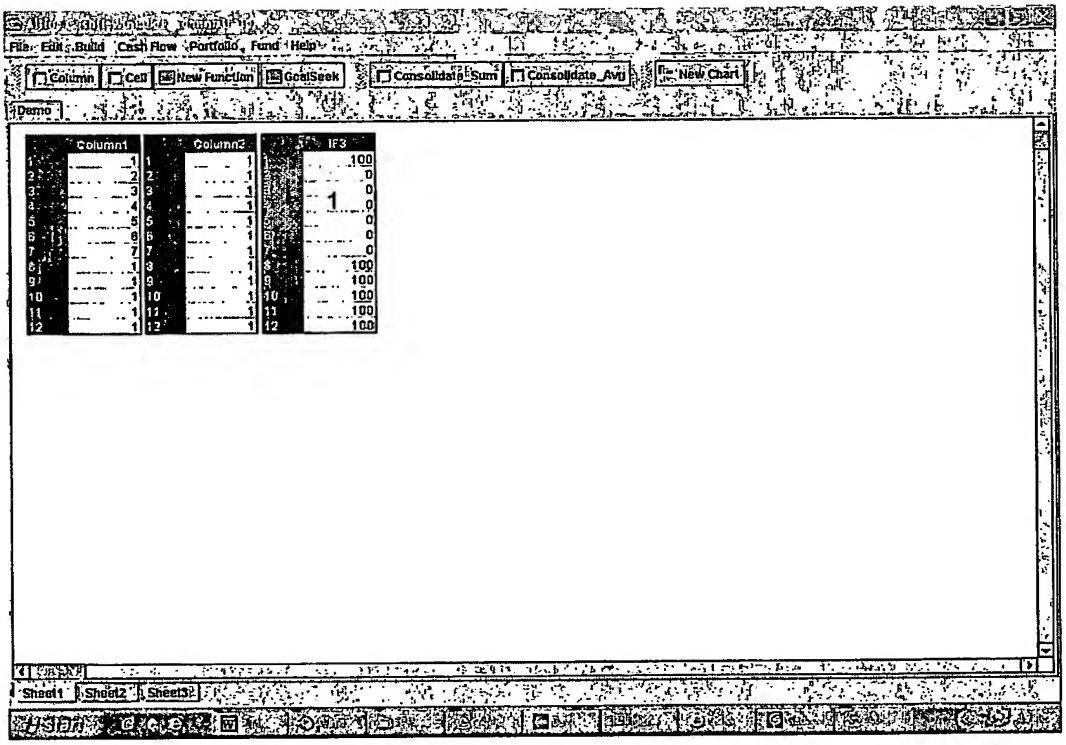

File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
IF3
Sheet1
Sheet2
Sheet3
start

Fig. 32a

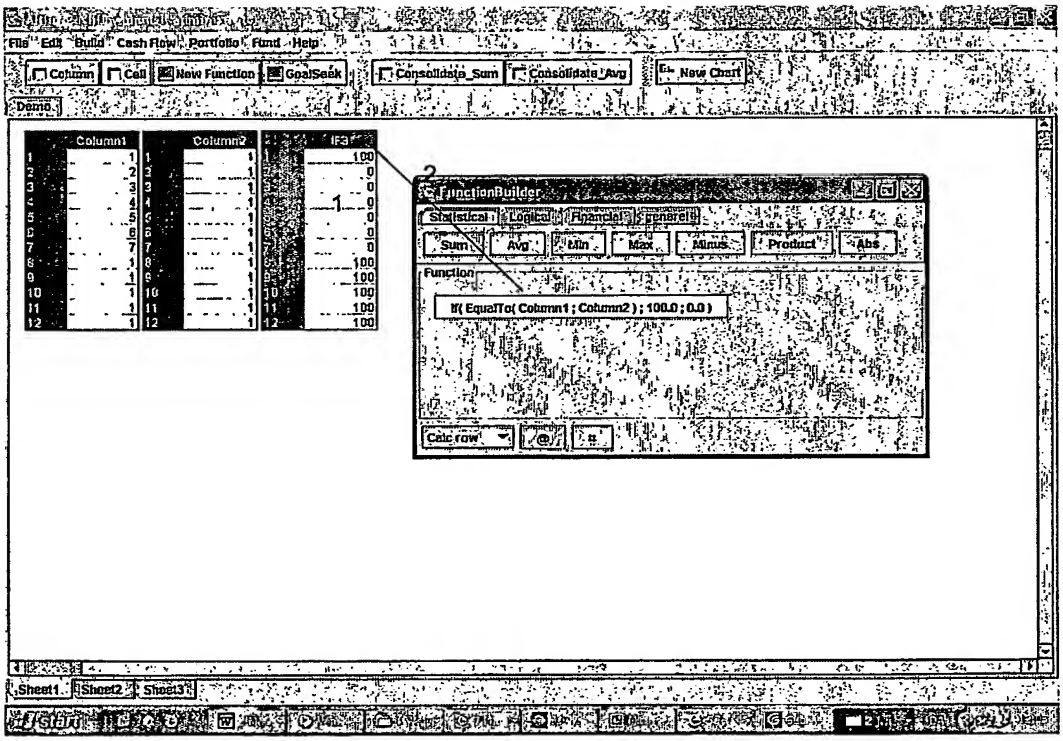

File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
IF3
FunctionBuilder
Statistical
Logical
Financial
General
Sum
Avg
Min
Max
Minus
Product
Abs
Function
If(EqualTo(Column1 ; Column2) ; 100.0 ; 0.0)
Calc row
Sheet1
Sheet2
Sheet3

Fig. 32b

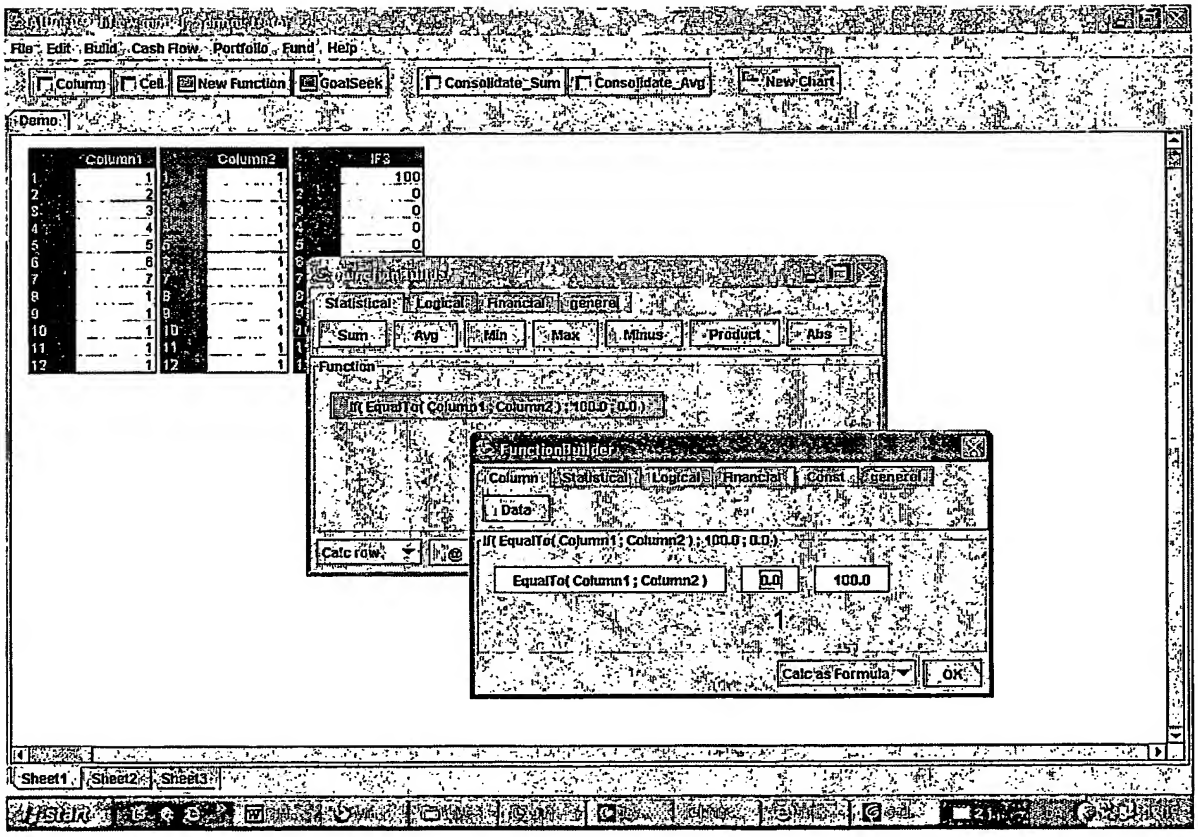

File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
IF3
Statistical
Logical
Financial
general
Sum
Avg
Min
Max
Minus
Product
Abs
Function
FunctionBuilder
Column
Statistical
Logical
Financial
Const
general
Data
Calc row
EqualTo(Column1 ; Column2)
0.0
100.0
Calc as Formula
OK
Sheet1
Sheet2
Sheet3

Fig. 33a

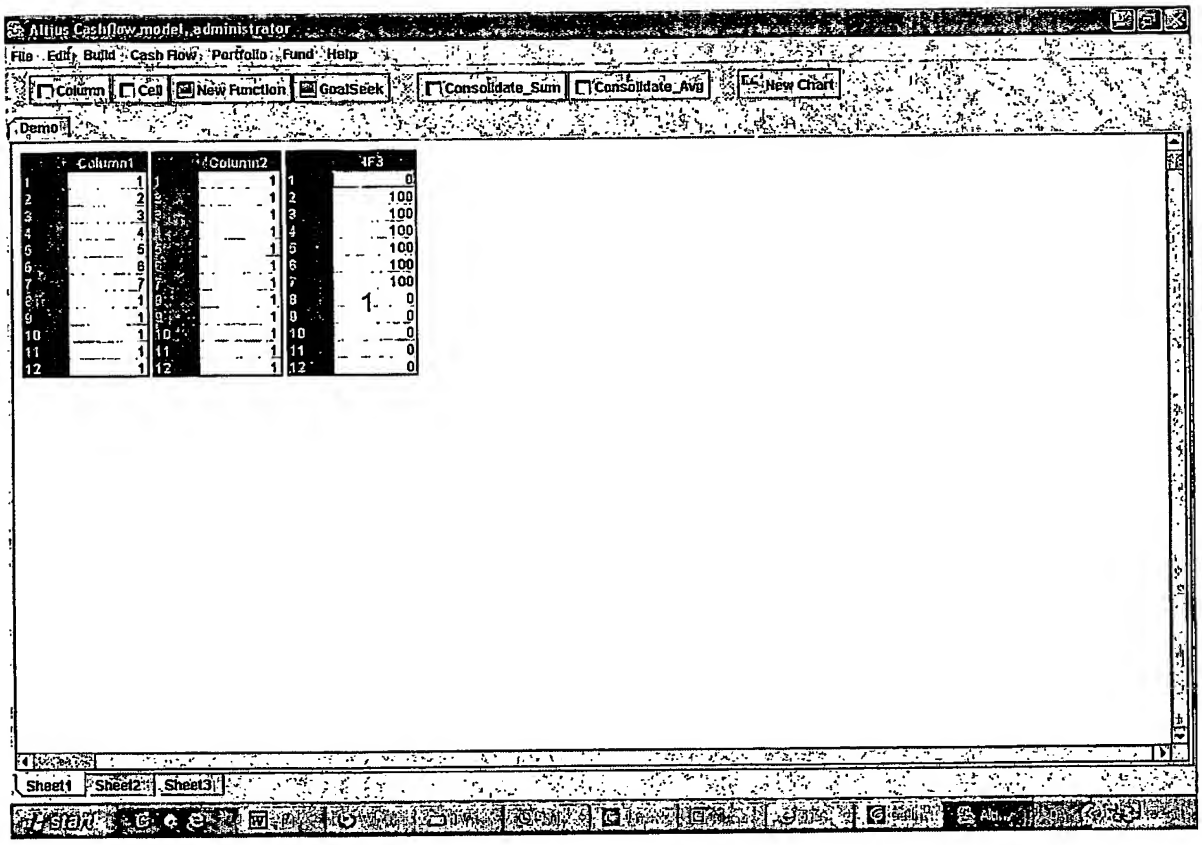

Altius Cashflow model - administrator
File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
IF3
Sheet1
Sheet2
Sheet3
start

Fig. 33b

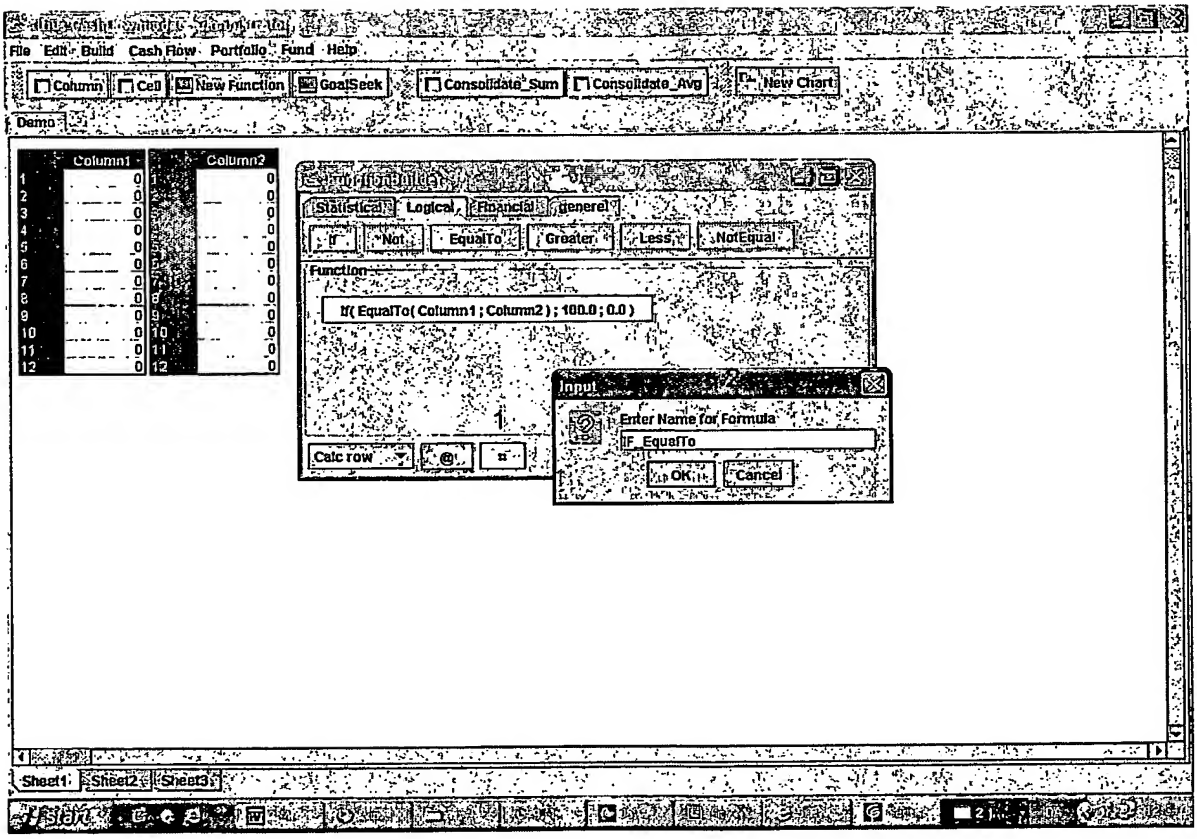

File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
Statistical
Logical
Financial
generel
If
Not
EqualTo
Greater
Less
NotEqual
Function
If(EqualTo(Column1 ; Column2) ; 100.0 ; 0.0)
Calc row
Input
Enter Name for Formula
IF_EqualTo
OK
Cancel
Sheet1
Sheet2
Sheet3

Fig. 34

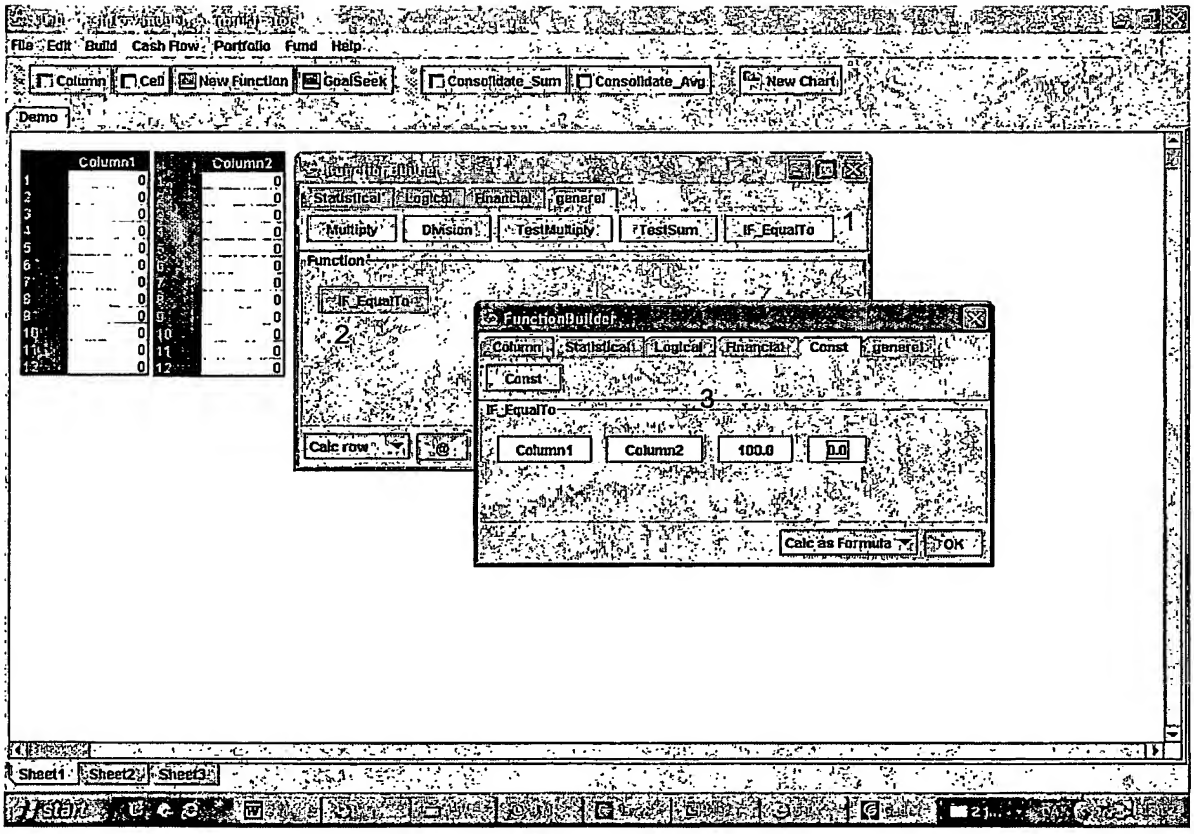

File Edit Build Cash Flow Portfolio Fund Help
Column
Cell
New Function
GoalSeek
Consolidate_Sum
Consolidate_Avg
New Chart
Demo
Column1
Column2
Statistical
Logical
Financial
general
Multiply
Division
TestMultiply
TestSum
IF_EqualTo
1
Function
IF_EqualTo
2
FunctionBuilder
Column
Statistical
Logical
Financial
Const
general
Const
3
IF_EqualTo
Calc row
Column1
Column2
100.0
0.0
Calc as Formula
OK
Sheet1
Sheet2
Sheet3

Fig. 35

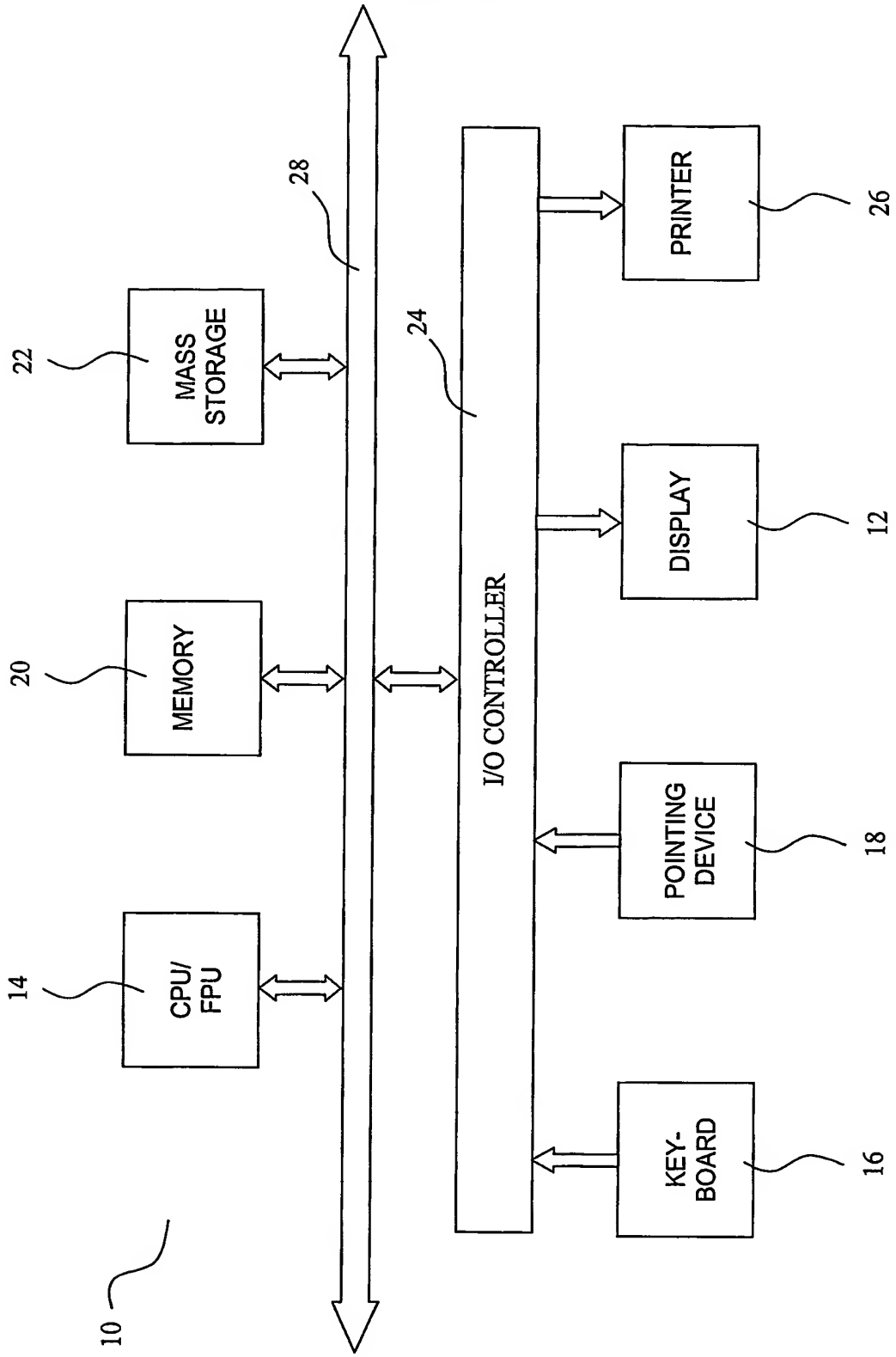

10
14
CPU/
FPU
20
MEMORY
22
MASS
STORAGE
28
24
I/O CONTROLLER
16
KEY-
BOARD
18
POINTING
DEVICE
12
DISPLAY
26
PRINTER

Fig. 36

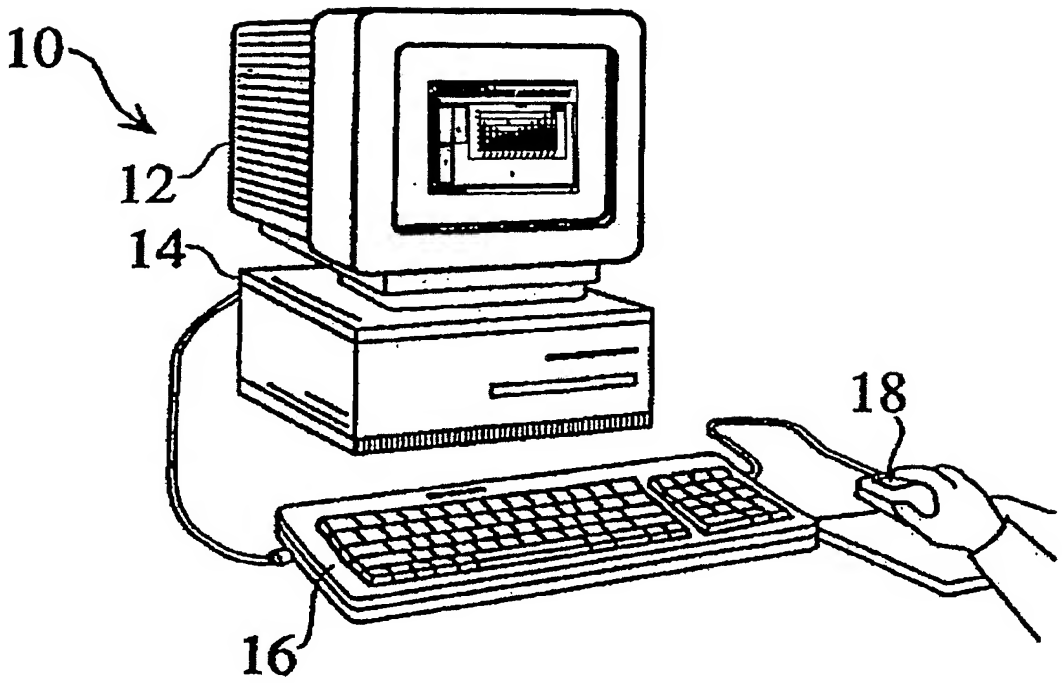


Fig. 37

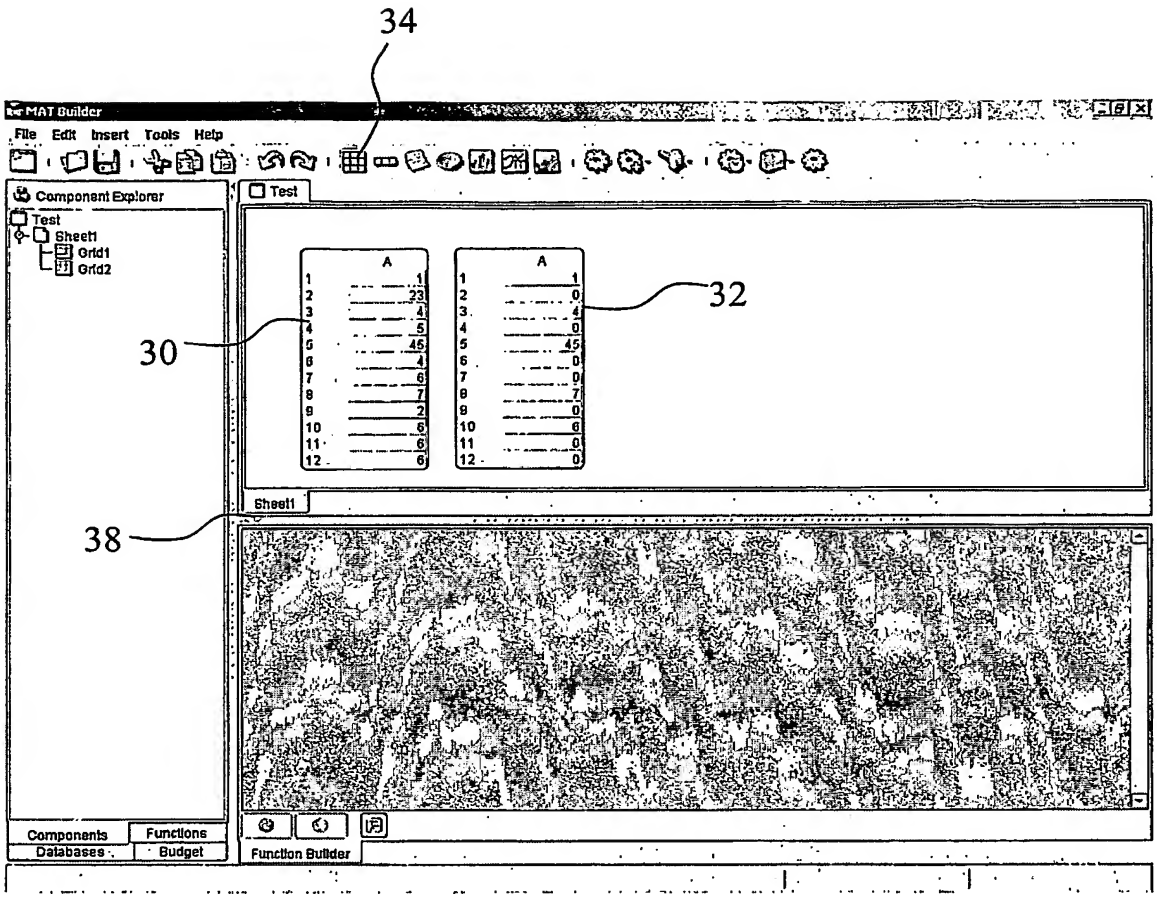

34
MAT Builder
File Edit Insert Tools Help
Component Explorer
Test
Sheet1
Grid1
Grid2
Test
A
A
30
32
38
Sheet1
Components
Functions
Databases
Budget
Function Builder

Fig. 38

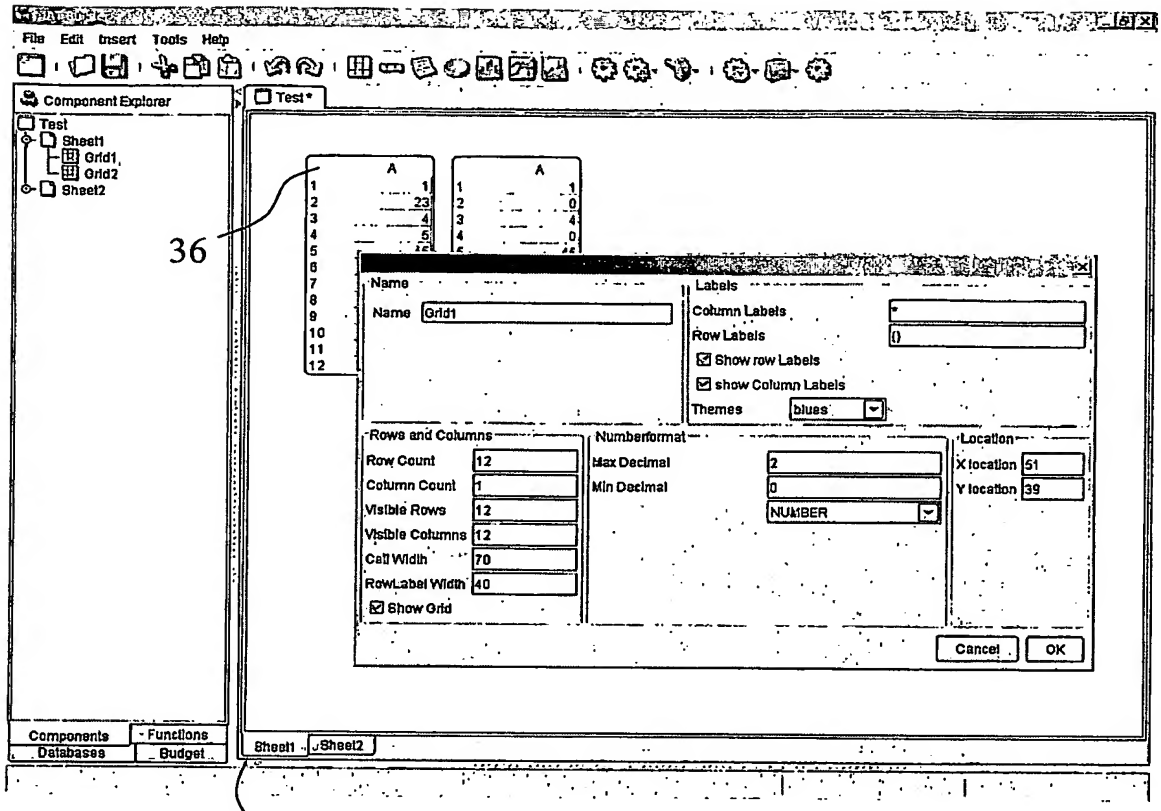

File Edit Insert Tools Help
Component Explorer
Test
Sheet1
Grid1
Grid2
Sheet2
Test*
36
Name
Name Grid1
Labels
Column Labels
Row Labels
Show row Labels
show Column Labels
Themes
blues
Rows and Columns
Row Count 12
Column Count 1
Visible Rows 12
Visible Columns 12
Cell Width 70
RowLabel Width 40
Show Grid
Numberformat
Max Decimal 2
Min Decimal 0
NUMBER
Location
X location 51
Y location 39
Cancel
OK
Components
Functions
Databases
Budget
Sheet1
Sheet2
38

Fig. 39

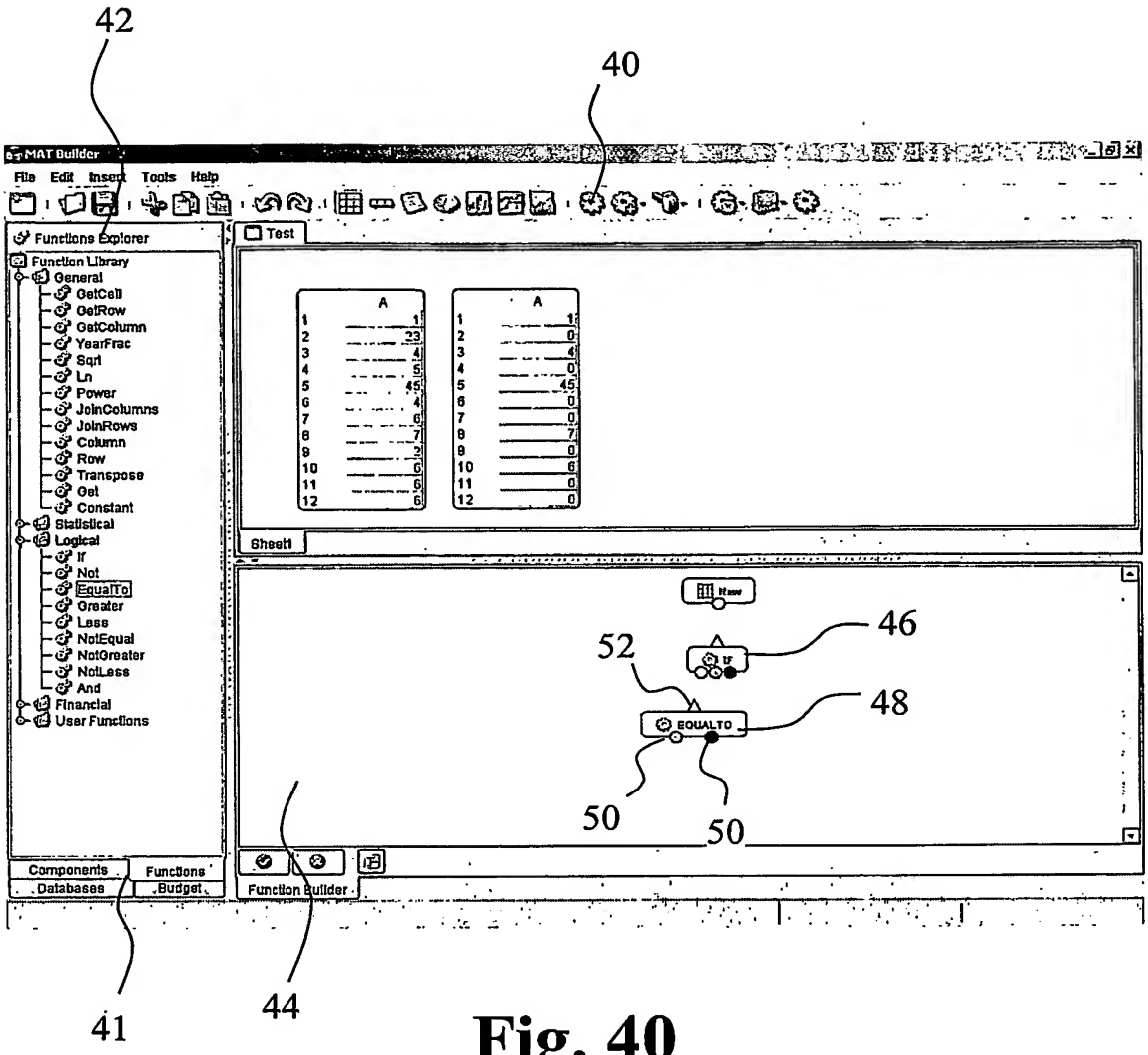

42
40
MAT Builder
File Edit Insert Tools Help
Functions Explorer
Function Library
General
GetCell
GetRow
GetColumn
YearFrac
Sqrt
Ln
Power
JoinColumns
JoinRows
Column
Row
Transpose
Get
Constant
Statistical
Logical
If
Not
EqualTo
Greater
Less
NotEqual
NotGreater
NotLess
And
Financial
User Functions
Components
Functions
Databases
Budget
Test
Sheet1
Function Builder
EQUALTO
46
52
48
50
50
41
44

Fig. 40

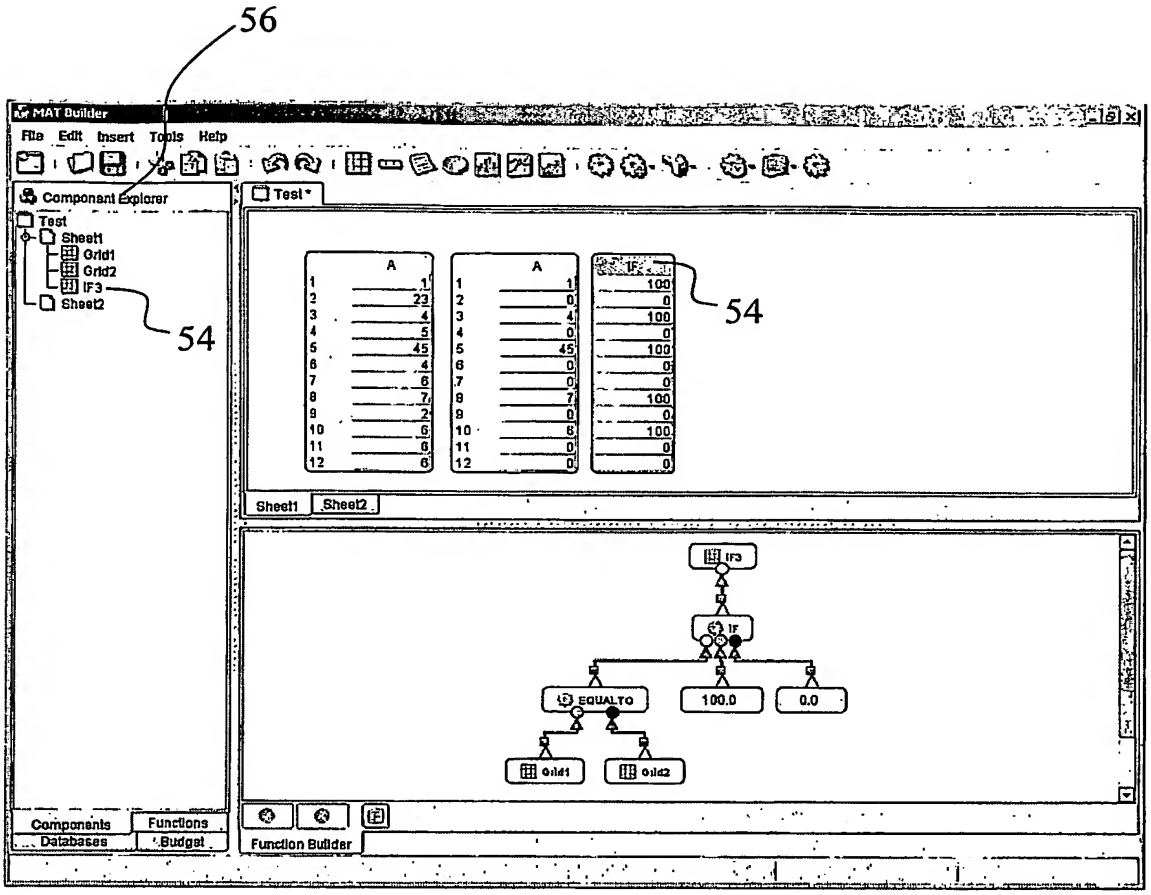

56
MAT Builder
File Edit Insert Tools Help
Component Explorer
Test
Sheet1
Grid1
Grid2
IF3
Sheet2
54
Test
A
A
IF
54
Sheet1
Sheet2
IF3
IF
EQUALTO
100.0
0.0
Grid1
Grid2
Components
Functions
Databases
Budget
Function Builder

Fig. 41

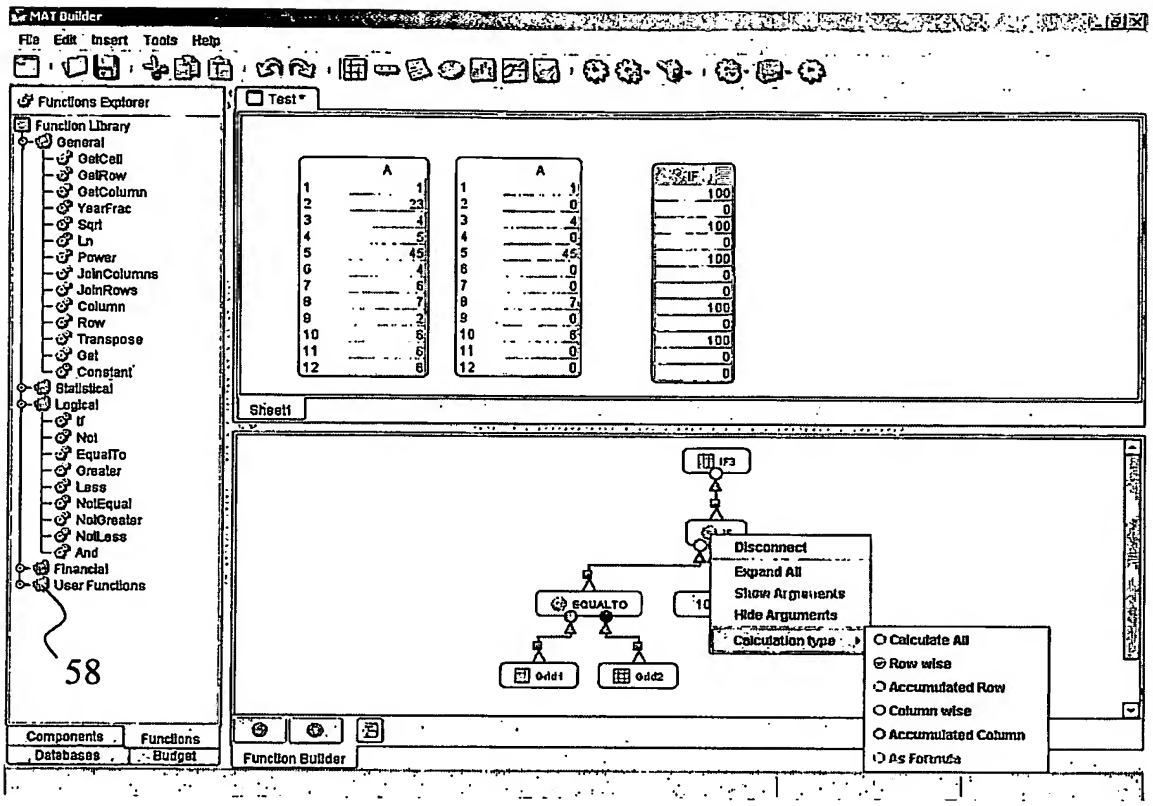

MAT Builder
File Edit Insert Tools Help
Functions Explorer
Function Library
General
GetCell
GetRow
GetColumn
YearFrac
Sqrt
Ln
Power
JoinColumns
JoinRows
Column
Row
Transpose
Get
Constant
Statistical
Logical
If
Not
EqualTo
Greater
Less
NotEqual
NotGreater
NotLess
And
Financial
User Functions
58
Components
Functions
Databases
Budget
Test
A
Sheet1
IF3
EQUALTO
Odd1
Odd2
Disconnect
Expand All
Show Arguments
Hide Arguments
Calculation type
Calculate All
Row wise
Accumulated Row
Column wise
Accumulated Column
As Formula
Function Builder

Fig. 42

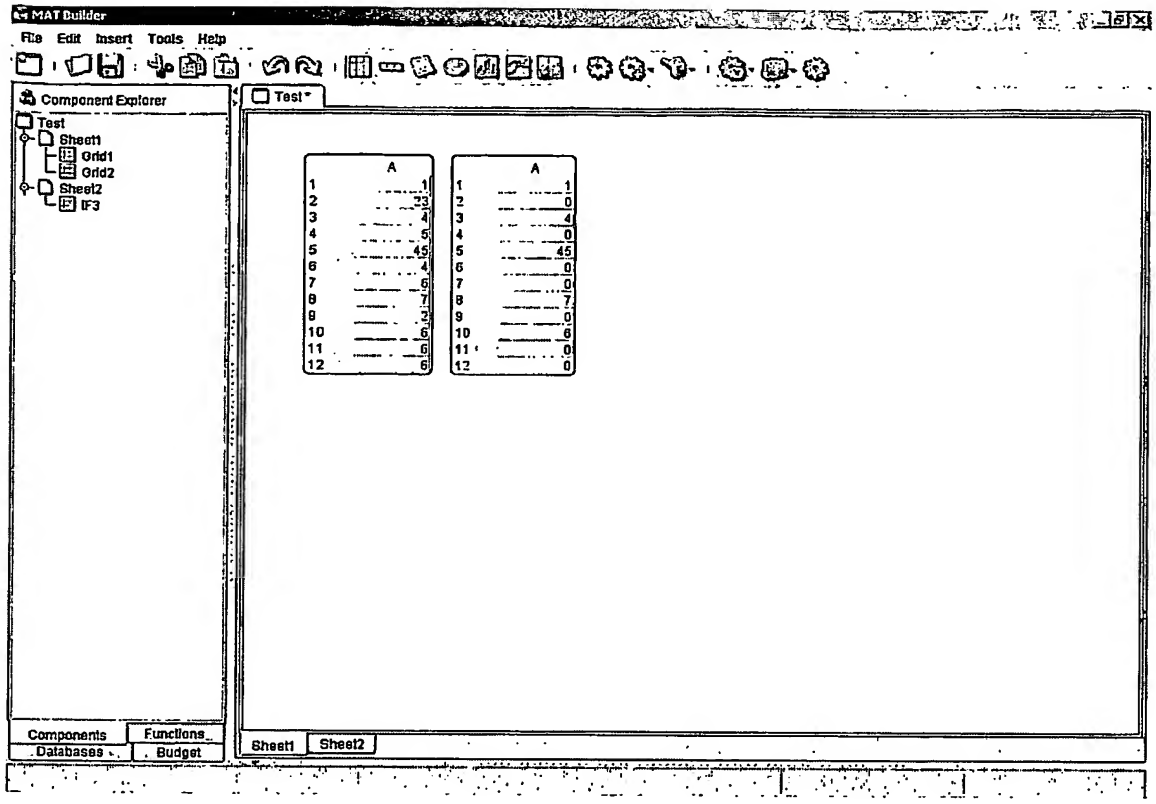

MAT Builder
File Edit Insert Tools Help
Component Explorer
Test
Sheet1
Grid1
Grid2
Sheet2
IF3
Test
A
A
Components
Functions
Databases
Budget
Sheet1
Sheet2

Fig. 43

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